

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/551,866
Source: P4710
Date Processed by STIC: 10/14/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 10/14/2005

PATENT APPLICATION: US/10/551,866

TIME: 13:30:35

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

3 <110> APPLICANT: Kobayashi, Masanobu and Jian, Chen
 5 <120> TITLE OF INVENTION: DRUG
 7 <130> FILE REFERENCE: 18220-003US1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/551,866
 C--> 9 <141> CURRENT FILING DATE: 2005-10-03
 9 <150> PRIOR APPLICATION NUMBER: PCT/JP04/004917
 10 <151> PRIOR FILING DATE: 2004-04-05
 12 <150> PRIOR APPLICATION NUMBER: 60/459,644
 13 <151> PRIOR FILING DATE: 2003-04-03
 15 <160> NUMBER OF SEQ ID NOS: 16
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 313
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Homo sapiens
 24 <400> SEQUENCE: 1
 25 Met Leu Leu Ser Lys Ile Asn Ser Leu Ala His Leu Arg Ala Ala Pro
 26 1 5 10 15
 28 Cys Asn Asp Leu His Ala Thr Lys Leu Ala Pro Gly Lys Glu Lys Glu
 29 20 25 30
 31 Pro Leu Glu Ser Gln Tyr Gln Val Gly Pro Leu Leu Gly Ser Gly Gly
 32 35 40 45
 34 Phe Gly Ser Val Tyr Ser Gly Ile Arg Val Ser Asp Asn Leu Pro Val
 35 50 55 60
 37 Ala Ile Lys His Val Glu Lys Asp Arg Ile Ser Asp Trp Gly Glu Leu
 38 65 70 75 80
 40 Pro Asn Gly Thr Arg Val Pro Met Glu Val Val Leu Leu Lys Lys Val
 41 85 90 95
 43 Ser Ser Gly Phe Ser Gly Val Ile Arg Leu Leu Asp Trp Phe Glu Arg
 44 100 105 110
 46 Pro Asp Ser Phe Val Leu Ile Leu Glu Arg Pro Glu Pro Val Gln Asp
 47 115 120 125
 49 Leu Phe Asp Phe Ile Thr Glu Arg Gly Ala Leu Gln Glu Glu Leu Ala
 50 130 135 140
 52 Arg Ser Phe Phe Trp Gln Val Leu Glu Ala Val Arg His Cys His Asn
 53 145 150 155 160
 55 Cys Gly Val Leu His Arg Asp Ile Lys Asp Glu Asn Ile Leu Ile Asp
 56 165 170 175
 58 Leu Asn Arg Gly Glu Leu Lys Leu Ile Asp Phe Gly Ser Gly Ala Leu
 59 180 185 190
 61 Leu Lys Asp Thr Val Tyr Thr Asp Phe Asp Gly Thr Arg Val Tyr Ser
 62 195 200 205
 64 Pro Pro Glu Trp Ile Arg Tyr His Arg Tyr His Gly Arg Ser Ala Ala

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,866

DATE: 10/14/2005

TIME: 13:30:35

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

```

65      210      215      220
67 Val Trp Ser Leu Gly Ile Leu Leu Tyr Asp Met Val Cys Gly Asp Ile
68 225      230      235      240
70 Pro Phe Glu His Asp Glu Glu Ile Ile Arg Gly Gln Val Phe Phe Arg
71      245      250      255
73 Gln Arg Val Ser Ser Glu Cys Gln His Leu Ile Arg Trp Cys Leu Ala
74      260      265      270
76 Leu Arg Pro Ser Asp Arg Pro Thr Phe Glu Glu Ile Gln Asn His Pro
77      275      280      285
79 Trp Met Gln Asp Val Leu Leu Pro Gln Glu Thr Ala Glu Ile His Leu
80      290      295      300
82 His Ser Leu Ser Pro Gly Pro Ser Lys
83 305      310
86 <210> SEQ ID NO: 2
87 <211> LENGTH: 942
88 <212> TYPE: DNA
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 2
92 atgctcttgt ccaaaatcaa ctgcttgcc cacctgcgcg ccgcgccttg caacgacctg 60
93 caccgccacca agctggcgcc cggcaaggag aaggagcccc tggagtcgca gtaccaggtg 120
94 ggcccgtac tgggcagcgg cggcttcggc tgggtctact caggcatccg cgtctccgac 180
95 aacttgccgg tggccatcaa acacgtggag aaggaccgga ttccgactg gggagagctg 240
96 cctaattggca ctcgagtgcc catggaagtg gtctgtctga agaaggtgag ctcggttttc 300
97 tccggcgta ttaggtctct ggactggttc gagaggcccg acagtttcgt cctgatcctg 360
98 gagaggcccg agccggtgca agatctcttc gacttcatca cggaaagggg agccctgcaa 420
99 gaggagctgg ccgcagctt cttctggcag gtgctggagg ccgtgcggca ctgccacaac 480
100 tgcggggtgc tccaccgcga catcaaggac gaaaacatcc ttatcgacct caatcgcggc 540
101 gagctcaagc tcatcgactt cgggtcgggg gcgctgctca aggacaccgt ctacacggac 600
102 ttcgatggga ccgagtgta tagccctcca gagtggatcc gctaccatcg ctaccatggc 660
103 aggtcggcgg cagtctggtc cctggggatc ctgctgtatg atatggtgtg tggagatatt 720
104 cctttcgagc atgacgaaga gatcatcagg ggccaggttt tcttcaggca gagggtctct 780
105 tcagaatgtc agcatctcat tagatggtgc ttggccctga gaccatcaga taggccaacc 840
106 ttcgaagaaa tccagaacca tccatggatg caagatgttc tctgccccca ggaaactgct 900
107 gagatccacc tccacagcct gtcgccgggg ccagcaaat ag 942
110 <210> SEQ ID NO: 3
111 <211> LENGTH: 233
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 3
116 Pro Asn Gly Thr Arg Val Pro Met Glu Val Val Leu Leu Lys Lys Val
117 1      5      10      15
119 Ser Ser Gly Phe Ser Gly Val Ile Arg Leu Leu Asp Trp Phe Glu Arg
120      20      25      30
122 Pro Asp Ser Phe Val Leu Ile Leu Glu Arg Pro Glu Pro Val Gln Asp
123      35      40      45
125 Leu Phe Asp Phe Ile Thr Glu Arg Gly Ala Leu Gln Glu Glu Leu Ala
126      50      55      60
128 Arg Ser Phe Phe Trp Gln Val Leu Glu Ala Val Arg His Cys His Asn
129 65      70      75      80

```

RAW SEQUENCE LISTING

DATE: 10/14/2005

PATENT APPLICATION: US/10/551,866

TIME: 13:30:35

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

```

131 Cys Gly Val Leu His Arg Asp Ile Lys Asp Glu Asn Ile Leu Ile Asp
132           85           90           95
134 Leu Asn Arg Gly Glu Leu Lys Leu Ile Asp Phe Gly Ser Gly Ala Leu
135           100           105           110
137 Leu Lys Asp Thr Val Tyr Thr Asp Phe Asp Gly Thr Arg Val Tyr Ser
138           115           120           125
140 Pro Pro Glu Trp Ile Arg Tyr His Arg Tyr His Gly Arg Ser Ala Ala
141           130           135           140
143 Val Trp Ser Leu Gly Ile Leu Leu Tyr Asp Met Val Cys Gly Asp Ile
144 145           150           155           160
146 Pro Phe Glu His Asp Glu Glu Ile Ile Arg Gly Gln Val Phe Phe Arg
147           165           170           175
149 Gln Arg Val Ser Ser Glu Cys Gln His Leu Ile Arg Trp Cys Leu Ala
150           180           185           190
152 Leu Arg Pro Ser Asp Arg Pro Thr Phe Glu Glu Ile Gln Asn His Pro
153           195           200           205
155 Trp Met Gln Asp Val Leu Leu Pro Gln Glu Thr Ala Glu Ile His Leu
156 210           215           220
158 His Ser Leu Ser Pro Gly Pro Ser Lys
159 225           230
162 <210> SEQ ID NO: 4
163 <211> LENGTH: 702
164 <212> TYPE: DNA
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 4
168 cctaattggca ctcgagtgcc catggaagtg gtctgtctga agaaggtgag ctcggggtttc 60
169 tccggcgctca ttaggtctct ggactgggtc gagaggcccg acagtctcgt cctgatacctg 120
170 gagaggcccg agccggtgca agatctcttc gacttcatca cggaaagggg agccctgcaa 180
171 gaggagctgg cccgcagctt cttctggcag gtgctggagg ccgtgcggca ctgccacaac 240
172 tgcgggggtgc tccaccgcga catcaaggac gaaaacatcc ttatcgacct caatcgcggc 300
173 gagctcaagc tcatcgactt cgggtcgggg gcgctgctca aggacaccgt ctacacggac 360
174 ttcatgaggc cccgagtgtg tagccctcca gactggatcc gctaccatcg ctaccatggc 420
175 aggtcggcgg cagtctggtc cctggggatc ctgctgtatg atatggtgtg tggagatatt 480
176 cctttcgagc atgacgaaga gatcatcagg ggccagggtt tcttcaggca gagggtctct 540
177 tcagaatgtc agcatctcat tagatgggtg ttggccctga gaccatcaga taggccaacc 600
178 ttcgaagaaa tccagaacca tccatggatg caagatgttc tctgccccca ggaaactgct 660
179 gagatccacc tccacagcct gtcgcggggg ccagcaaat ag 702
182 <210> SEQ ID NO: 5
183 <211> LENGTH: 20
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
190 <400> SEQUENCE: 5
191 ggttgatgc tcttgtccaa 20
194 <210> SEQ ID NO: 6
195 <211> LENGTH: 19
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 10/14/2005

PATENT APPLICATION: US/10/551,866

TIME: 13:30:35

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

```

199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
202 <400> SEQUENCE: 6
203 ccttccagaa gtcttctat 19
206 <210> SEQ ID NO: 7
207 <211> LENGTH: 40
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
214 <400> SEQUENCE: 7
215 gtagaattcg ccaccatgcc tgcctaattgg cactcgagtg 40
218 <210> SEQ ID NO: 8
219 <211> LENGTH: 25
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
226 <400> SEQUENCE: 8
227 gtactatttg ctgggccccg gcgac 25
230 <210> SEQ ID NO: 9
231 <211> LENGTH: 29
232 <212> TYPE: RNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence:short
237 interference RNA
239 <400> SEQUENCE: 9
240 aaugaugaag ucgaagagau cccugucuc 29
243 <210> SEQ ID NO: 10
244 <211> LENGTH: 29
245 <212> TYPE: RNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence:short
250 interference RNA
252 <400> SEQUENCE: 10
253 aagaucucuu cgacuucauc accugucuc 29
256 <210> SEQ ID NO: 11
257 <211> LENGTH: 29
258 <212> TYPE: RNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence:short
263 interference RNA
265 <400> SEQUENCE: 11
266 aaaucuaaug agauncugac accugucuc 29
269 <210> SEQ ID NO: 12
270 <211> LENGTH: 29

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,866

DATE: 10/14/2005

TIME: 13:30:35

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

```

271 <212> TYPE: RNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence:short
276     interference RNA
278 <400> SEQUENCE: 12
279 aaugucagca ucucauuaga uccugucuc                29
282 <210> SEQ ID NO: 13
283 <211> LENGTH: 29
284 <212> TYPE: RNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence:short
289     interference RNA
291 <400> SEQUENCE: 13
292 aaauccaugg augguucugg accugucuc                29
295 <210> SEQ ID NO: 14
296 <211> LENGTH: 29
297 <212> TYPE: RNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence:short
302     interference RNA
304 <400> SEQUENCE: 14
305 aauccagaac cauccaugga uccugucuc                29
308 <210> SEQ ID NO: 15
309 <211> LENGTH: 21
310 <212> TYPE: RNA
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence:short
315     interference RNA
317 <400> SEQUENCE: 15
318 ggcuaacgucc aggagcgcac c                      21
321 <210> SEQ ID NO: 16
322 <211> LENGTH: 8
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
329 <400> SEQUENCE: 16
330 taacggtt                                     8

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/551,866

DATE: 10/14/2005

TIME: 13:30:36

Input Set : A:\18220-003US1.txt

Output Set: N:\CRF4\10142005\J551866.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date